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What is claimed is:

- 1. A method for selecting a wireless data transmitter, 2 for conveying digital data from a first device to a second 3 device, wherein the first device has a transmitter and the 4 second device a receiver, comprising the steps of:
- assigning the first device an authentication number;
- the transmitter of the first device conveying a signal including the authentication number;
 - displaying a login number corresponding to the authentication number on the second device when the receiver of the second device locates the signal; and
 - inputting the login number into the first device, the transmitter then conveying the login number to the receiver such that the second device receiving the digital data from the first device.
 - 2. The method as recited in claim 1, wherein transmission between the transmitter and the receiver uses radio waves selected from the group consisting of high frequency radio, infrared and microwave.
 - 3. The method as recited in claim 1, wherein the first device is selected from the group consisting of keyboard, mouse, personal gaming device, cellular phone, personal digital assistant, set-top box, notebook computer, computer and IA.
- 4. The method as recited in claim 1, wherein the second device is selected from the group consisting of personal gaming device, cellular phone, personal digital assistant, set-top box, notebook computer, computer and IA.
- 5. The method as recited in claim 1, wherein the authentication number is stored in EEPROM (electrically erasable programmable read-only memory).

- 6. A method for selecting a wireless data transmitter,
- 2 for conveying digital data from a first device to a second
- device, wherein the first device has a transmitter and the
- 4 second device has a receiver, comprising the steps of:
- the first device randomly creating an authentication
- 6 number;
- the transmitter of the first device conveying a signal
- 8 including the authentication number;
- 9 displaying a login number corresponding to the
- authentication number on the second device when the receiver
- of the second device locates the signal; and
- inputting the login number into the first device, the
- 13 transmitter then conveying the login number to the receiver
- such that the second device receiving the digital data from the
- 15 first device.
 - 7. The method as recited in claim 6, wherein transmission
 - 2 between the transmitter and the receiver uses radio waves
 - selected from the group consisting of high frequency radio,
 - infrared and microwave.
 - 1 8. The method as recited in claim 6, wherein the first
 - 2 device is selected from the group consisting of keyboard, mouse,
 - 3 personal gaming device, cellular phone, personal digital
 - assistant, set-top box, notebook computer, computer and IA.
 - 1 9. The method as recited in claim 6, wherein the second
 - 2 device is selected from the group consisting of personal gaming
 - device, cellular phone, personal digital assistant, set-top
 - 4 box, notebook computer, computer and IA.
 - 1 10. A method for selecting a wireless data transmitter,
 - 2 for conveying digital data from a plurality of first devices
 - 3 to a second device, wherein each of the first devices has an
 - 4 individual transmitter and the second device has a receiver,

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comprising the steps of: 5

6 assigning each of the first devices an individual authentication number respectively; 7

the individual transmitter of each of the first devices 8 9 conveying a signal including the individual authentication number respectively; 10

displaying a login number corresponding to the individual authentication number on the second device when the receiver of the second device locates the signal; and

selecting one of the first devices and inputting the login number into the selected first device, the individual transmitter then conveying the login number to the receiver such that the second device receiving the digital data from the selected first device.

- The method as recited in claim 10, wherein 11. transmission between the transmitter and the receiver uses radio waves selected from the group consisting of high frequency radio, infrared and microwave.
- The method as recited in claim 10, wherein the first device is selected from the group consisting of keyboard, mouse, personal gaming device, cellular phone, personal digital assistant, set-top box, notebook computer, computer and IA.
- The method as recited in claim 10, wherein the second 1 2 device is selected from the group consisting of personal gaming device, cellular phone, personal digital assistant, set-top 3 box, notebook computer, computer and IA. 4
- 1 The method as recited in claim 10, wherein the authentication number is stored in EEPROM (electrically 2 erasable programmable read-only memory). 3
 - A method for selecting a wireless data transmitter, 15.

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- for conveying digital data from a plurality of first devices
- to a second device, wherein each of the first devices has an 3
- individual transmitter and the second device has a receiver, 4
- comprising the steps of: 5
- each of the first devices creating randomly an individual 6 authentication number respectively; 7
- the individual transmitter of each of the first devices 8 conveying a signal including the individual authentication 9 number respectively; 10
 - displaying a login number corresponding to the individual authentication number on the second device when the receiver of the second device locates the signal; and

selecting one of the first devices and inputting the login number into the selected first device, the individual transmitter then conveying the login number to the receiver such that the second device receiving the digital data from the selected first device.

- 16. The method as recited in claim 15, Transmission between the transmitter and the receiver uses radio waves selected from the group consisting of high frequency radio, infrared and microwave.
- 1 The method as recited in claim 15, wherein the first device is selected from the group consisting of keyboard, mouse, 2 personal gaming device, cellular phone, personal digital 3 assistant, set-top box, notebook computer, computer and IA. 4
- 1 18. The method as recited in claim 15, wherein the second 2 device is selected from the group consisting of personal gaming device, cellular phone, personal digital assistant, set-top 3 box, notebook computer, computer and IA. 4
- 1 A method for selecting a wireless data transmitter, for exchanging digital data between a first device and a second 2

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- device, wherein the first device having a first transmitter and
- 4 a first receiver, and the second device having a second
- transmitter and a second receiver, comprising the steps of:
- assigning the first device a first authentication number
- 7 and the second device a second authentication number,
- 8 respectively;
- the first transmitter of the first device conveying a
- 10 first signal including the first authentication number;
- displaying a first login number corresponding to the first
- 12 authentication number on the second device when the second
- 13 receiver of the second device locates the first signal;
- inputting the first login number into the first device,
- the first transmitter then conveying the first login number to
- 16 the second receiver such that the second device receiving the
- 17 digital data from the first device;
 - the second transmitter of the second device conveying a second signal including the second authentication number;
 - displaying a second login number corresponding to the second authentication number on the first device when the first
- 22 receiver of the first device locates the second signal; and
- inputting the second login number into the second device,
- the second transmitter then conveying the second login number
- 25 to the first receiver such that the first device receiving the
- 26 digital data from the second device.
- 1 20. The method as recited in claim 19, wherein
- 2 transmission between the transmitter and the receiver uses
- 3 radio waves selected from the group consisting of high
- 4 frequency radio, infrared and microwave.
- 1 21. The method as recited in claim 19, wherein the first
- 2 device is selected from the group consisting of personal gaming
- device, cellular phone, personal digital assistant, set-top
- 4 box, notebook computer, computer and IA.

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- 1 22. The method as recited in claim 19, wherein the second 2 device is selected from the group consisting of personal gaming 3 device, cellular phone, personal digital assistant, set-top 4 box, notebook computer, computer and IA.
- 1 23. The method as recited in claim 19, wherein the 2 authentication number is stored in EEPROM (electrically 3 erasable programmable read-only memory).
 - 24. A method for selecting a wireless data transmitter, for exchanging digital data between a first device and a second device, wherein the first device has a first transmitter and a first receiver, and the second device has a second transmitter and a second receiver, comprising the steps of:

the first device randomly creating a first authentication number and the second device randomly creating a second authentication number, respectively;

the first transmitter of the first device conveying a first signal including the first authentication number;

displaying a first login number corresponding to the first authentication number on the second device when the second receiver of the second device locates the first signal;

inputting the first login number into the first device, the first transmitter then conveying the first login number to the second receiver such that the second device receiving the digital data from the first device;

the second transmitter of the second device conveying a second signal including the second authentication number;

displaying a second login number corresponding to the second authentication number on the first device when the first receiver of the first device locates the second signal; and

inputting the second login number into the second device, the second transmitter then conveying the second login number to the first receiver such that the first device receives the digital data from the second device.

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- 1 25. The method as recited in claim 24, wherein 2 transmission between the transmitter and the receiver uses 3 radio waves selected from the group consisting of high 4 frequency radio, infrared and microwave.
- 26. The method as recited in claim 24, wherein the first device is selected from the group consisting of personal gaming device, cellular phone, personal digital assistant, set-top box, notebook computer, computer and IA.
 - 27. The method as recited in claim 24, wherein the second device is selected from the group consisting of personal gaming device, cellular phone, personal digital assistant, set-top box, notebook computer, computer and IA.